



FS04-421PCT sequence list.ST25.txt
SEQUENCE LISTING

<110> Two Cells. Co. Ltd
<120> Bactericide against Streptococcus mutans and Streptococcus sobrinus
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<160> 4
<170> PatentIn version 3.1
<210> 1
<211> 979
<212> PRT
<213> Streptococcus mutans
<400> 1

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35 40 45

Ala Thr Thr Ala Gln Ile Ser Gln Glu Val Arg Asn Asn Gly Gln Asp
50 55 60

Ser Thr Ile Gln Leu Gln Gln Thr Gln Glu Gln Ser Asp Pro Ile Thr
65 70 75 80

Ser Thr Ser Glu Thr Thr Val Ser Ser Met Lys Ala Val Thr Asn Gly
85 90 95

Ser Pro Ala Lys Ala Asn Glu Thr Glu Thr Val Pro Ser Gln Ala Ser
100 105 110

Thr Ala Ser Ser Val Gln Thr Pro Asp Gln Ile Ser Thr Val Pro Ser
115 120 125

Val Lys Ala Glu Thr Thr Ser Thr Ala Asp Gln Leu Gln Ser Thr Ser
130 135 140

Ser Ala Pro Leu Asp Gln Gln Thr Asp Ala Lys Arg Leu Ser Asn Lys
145 150 155 160

Met Thr Pro Ala Ser Ser Val Gln Ala Arg Ser Ser Leu Thr Gln Asp
165 170 175

Lys Gln Val Gln Ala Gln Glu Val Thr Ser Ala Val Val Glu Glu Lys
180 185 190

Gly Ile Lys Leu Gln Tyr Asn Gly Gln Ile Ala Arg Asn Thr Lys Ile
195 200 205

Gln Phe Ala Val Trp Ser Ala Arg Asn Asp Gln Asp Asp Leu Gln Trp
210 215 220

Tyr Thr Ala Asn Asn Met Gly Ala Ala Tyr Ala Glu Phe Lys Asn His

225 230 235 240
 Arg Glu Tyr Gly Thr Tyr Tyr Val His Thr Tyr Ala Asn Gln Asn Gly
 245 250 255
 Lys Met Ile Gly Leu Asn Ala Thr Thr Leu Thr Ile Ala Gln Pro Gln
 260 265 270
 Val Gln Thr Asn Ile Gln Arg Lys Ser Ala Thr Asn Phe Glu Leu Thr
 275 280 285
 Val Ser Asn Val Pro Asn Thr Ile Ser Ser Ile Met Val Pro Val Trp
 290 295 300
 Ser Asp Gln Asn Gly Gln Asp Asp Ile Lys Trp Tyr Asn Ala Arg Lys
 305 310 315 320
 Ala Asp Asp Gly Ser Tyr Lys Ala Leu Ile Asp Thr Lys Asn His Lys
 325 330 335
 Asn Asp Leu Gly His Tyr Glu Ala His Ile Tyr Gly Tyr Ser Thr Val
 340 345 350
 Thr Gln Ser Gln Ile Gly Leu Ala Val Ser Ser Gly Phe Asp Arg Asn
 355 360 365
 Asp Thr Arg Pro Asn Ala Arg Ile Ser Val Ala Asp Tyr Asp Gln Asn
 370 375 380
 Lys Thr Thr Phe Asp Val Val Val Glu Gly Ser Ser Asp Thr Lys Thr
 385 390 395 400
 Val Ser Ala Val Asn Ile Ala Val Trp Ser Glu Asp Lys Gly Gln Asp
 405 410 415
 Asp Leu Lys Trp Tyr Ser Pro Lys Ile Val Asn Asn Lys Ala Thr Val
 420 425 430
 Thr Ile Asn Ile Ala Asn His Ser Asn Thr Ser Asp Lys Tyr Asn Val
 435 440 445
 His Val Tyr Thr Asp Tyr Thr Asp Gly Thr His Ser Gly Thr Ile Leu
 450 455 460
 Gly Ala Tyr Gln Ile Asn Lys Pro Leu Glu Lys Asn Thr Val Ser Ala
 465 470 475 480
 Asp Leu Thr Ser Asp Gly Ile Ala Leu Lys Leu Asp Ser Asn Thr Val
 485 490 495
 Thr Asp Tyr Thr Lys Val Arg Phe Ala Val Trp Ser Asp Gln Asn Gly
 500 505 510
 Gln Asp Asp Leu Lys Trp Tyr Ser Ala Asn Ser Asp Gly Ala Ala Thr
 515 520 525
 Ala Ala Tyr Ser Asn His Ser Gly Tyr Gly Leu Tyr His Ile His Thr

FS04-421PCT sequence list.ST25.txt
540

530

535

Tyr Ile Ile Lys Asp Gly Glu Met Val Gly Leu Asn Gly Arg Thr Ile
545 550 555 560

Thr Ile Asn Gln Pro Ser Ala Lys Val Asp Ile Ala Lys Glu Ser Asp
565 570 575

Ala Leu Tyr Lys Val Thr Val Ser Asn Leu Pro Ala Tyr Ile Ser Ser
580 585 590

Val Ala Ile Pro Val Trp Thr Asp Lys Asn Asn Gln Asp Asp Ile Gln
595 600 605

Trp Ile Leu Ala Thr Lys Gln Gly Asp Gly Thr Tyr Ala Ala Gln Ile
610 615 620

Gln Leu Ala Asp His Asn Gly Glu Thr Gly His Tyr Asn Val His Val
625 630 635 640

Tyr Gly Gln Ser Lys Phe Asp Asn Lys Thr Val Gly Leu Ala Ala Thr
645 650 655

Asp Gly Phe Asn Val Ala Glu Thr Arg Asn Ala Val Ile Ala Ala Ser
660 665 670

Asn Tyr Asn Ala Ser Ala Gly Thr Ile Asp Met Ile Val Lys Gln Glu
675 680 685

Ala Gly Gly Lys Ala Ile Lys Glu Val Arg Ile Ala Ala Trp Ser Glu
690 695 700

Ala Asp Gln Ser Asn Leu His Trp Tyr Val Ser Ser Thr Ile Ile Asp
705 710 715 720

Gly Lys Val Thr Val Thr Ile Asn Glu Lys Asn His Gln Tyr Ile Lys
725 730 735

Gly Asn Tyr Asn Ile His Val Tyr Val Asp Tyr Thr Asp Gly Thr Ser
740 745 750

Ser Gly Thr Asn Ile Gly Asn Tyr Ser Leu Asn Ala Asp Lys Pro Ala
755 760 765

Val Ala Leu Pro Ser Tyr Phe Ile Asp Ile Ser Ser His Asn Gly Ile
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805 810 815

Ser Ser Gln Ile Ala Asn Ala Arg Ala Ala Gly Ile Lys Val Ser Ala
820 825 830

Tyr His Tyr Ala His Tyr Thr Ser Ala Ala Gly Ala Gln Glu Glu Ala

835

840

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Asn Leu Ile His Tyr Thr Met Ala Ser Trp Leu Asp Ile Arg Gly Gly
900 905 910

Gln Val Asp Thr Ala Arg Phe Gly Ile Asn Asn Phe Trp Val Ala His
915 920 925

Tyr Ala Lys Gly Tyr Thr Tyr Met Thr Gln Glu Glu Ala Lys Ser Leu
930 935 940

Asn Tyr Tyr Ala Asn Ala Ala Ala Trp Gln Tyr Thr Ser Val Ser Ser
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<211> 2940

<212> DNA

<213> Streptococcus mutans

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FS04-421PCT sequence list.ST25.txt

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FS04-421PCT sequence list.ST25.txt

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<220>
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